

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A wireless display system including ~~composed of~~ an image display device and a data processing device connected through wireless communication elements, said wireless display system comprising:

data input and output port for input and output of data to in and from said image display device,

input and output data converting elements for converting data format and protocol in said wireless communication elements, and

input and output processing virtual elements for processing ~~making~~ virtual data input and output ~~process~~ in said data processing device as if the data input and output port are ~~were~~ connected directly,

wherein said data input and output port and input and output data converting elements are provided in said image display device,

said input and output processing virtual elements is provided in ~~at~~ said data processing device ~~side~~, and

all data, including input data and output data, communicated between said image display device and data processing device are mutually transmitted and received through said input and output data converting elements and input and output processing virtual elements, and

if a data input or a signal indicating a state change is detected at the data input and output port, the input and output data converting elements are capable of converting the data input or the signal indicating the state change to a predetermined wireless communication

data format and protocol.

2. (Currently amended) The wireless display system of claim 1,
wherein said image display device further comprises a power saving control device
~~means~~, and said power saving control device ~~means~~ sets the image display device in a first
power saving mode when the image display device is not operated for a specific time.

3. (Currently amended) The wireless display system of claim 2,
wherein said power saving control device ~~means~~ sets the image display device in a
second power saving mode for saving more power than in the first power saving mode when
the image display device is in the first power saving mode, and the data input and output
port are is not used for a specific time.

4. (Currently amended) The wireless display system of claim 2,
wherein said image display device further comprises display elements for
displaying the image and operating elements to be operated by the user, and
said power saving control device ~~means~~ sets said display elements and operating
elements in ~~power saving state in~~ the first power saving mode.

5. (Currently amended) The wireless display system of claim 1,
wherein said wireless communication elements measure ~~measures~~ the
communication rate of all data including the image data transmitted from the data
processing device and displayed in the image display device, and
the communication rate of the wireless communication is controlled by
decimating the updating of the image data at specific intervals when the communication
rate exceeds a certain rate of the effective communication rate of the wireless
communication.

6. (Currently amended) The wireless display system of claim 1,
wherein said data input and output port are is a ~~universal~~ serial communication interface.

7. (Currently amended) The wireless display system of claim 1,
wherein said data input and output port are is at least one of barcode reader, tester, digital camera, card reader, scanner, and GPS.

8. (Currently amended) A method of communication of wireless display system having an ~~said~~ image display device and a data processing device, said method comprising the steps of:

(a) entering and producing data to in and from said image display device,
(b) converting data format and protocol in the wireless communication, ~~and~~
(c) processing input and output in said data processing device virtually as if data input and output processing are ~~were~~ done directly, and

(d) if a data input or a signal indicating a state change is detected, converting the data input or the signal indicating the state change to a predetermined wireless communication data format and protocol,

wherein step (a) and step (b) are done at the image display device ~~side~~, step (c) is done at the data processing device ~~side~~, and all communication data between said image display device and data processing device is processed at step (b) and step (c), and is mutually transmitted and received.

9. (Currently amended) A computer program recording medium for executing communications of wireless display system having an ~~said~~ image display device and a data processing device comprising the programs for:

(a) entering and producing data to in and from said image display device,
(b) converting data format and protocol in the wireless communication, ~~and~~
(c) processing input and output in said data processing device virtually as if data
input and output processing are ~~were~~ done directly, and

(d) if a data input or a signal indicating a state change is detected, converting the
data input or the signal indicating the state change to a predetermined wireless
communication data format and protocol,

wherein program (a) and program (b) are executed at the image display device ~~side~~,
and program (c) is executed at the data processing device ~~side~~, and all communication data
between said image display device and data processing device is transmitted and received by
execution of program (b) and program (c).

10. (Currently amended) The wireless display system of claim 3,
wherein said image display device further comprises display elements for
displaying the image and operating elements to be operated by the user, and
said power saving control device ~~means~~ sets said display elements and operating
elements in ~~power saving state~~ in the first power saving mode.

11. (Currently amended) The wireless display system of claim 2,
wherein said wireless communication elements comprise ~~means comprises~~
elements for measuring the communication rate of all data including the image data
transmitted from the data processing device and displayed in the image display device,
and

the communication rate of the wireless communication is controlled by
decimating the updating of the image data at specific intervals when the communication

rate exceeds a certain rate of the effective communication rate of the wireless communication.

12. (Currently amended) The wireless display system of claim 3,
wherein said wireless communication elements comprise ~~means comprises~~
elements for measuring the communication rate of all data including the image data
transmitted from the data processing device and displayed in the image display device,
and

the communication rate of the wireless communication is controlled by
decimating the updating of the image data at specific intervals when the communication
rate exceeds a certain rate of the effective communication rate of the wireless
communication.

13. (Previously presented) The wireless display system of claim 1,
wherein the data from said data input and output port is used for connection
verification in wireless connection between the data processing device and image display
device, or for user authentication in the data processing device.

14. (Previously presented) The wireless display system of claim 2,
wherein the data from said data input and output port is used for connection
verification in wireless connection between the data processing device and image display
device, or for user authentication in the data processing device.

15. (Previously presented) The wireless display system of claim 3,
wherein the data from said data input and output port is used for connection
verification in wireless connection between the data processing device and image display
device, or for user authentication in the data processing device.

16. (Currently amended) The wireless display system of claim 2,
wherein said data input and output port are is a ~~universal~~ serial communication interface.

17. (Currently amended) The wireless display system of claim 3
wherein said data input and output port are is a ~~universal~~ serial communication interface.

18. (Currently amended) The wireless display system of claim 2,
wherein said data input and output port are is at least one of barcode reader, tester, digital camera, card reader, scanner, and GPS.

19. (Currently amended) The wireless display system of claim 3,
wherein said data input and output port are is at least one of barcode reader, tester, digital camera, card reader, scanner, and GPS.

20. (New) A wireless display system including an image display device and a data processing device connected through wireless communication elements, the wireless display system comprising:

data input and output port for input and output of data to and from the image display device,

input and output data converting elements for converting data format and protocol in the wireless communication elements, and

input and output processing virtual elements for making virtual data input and output process in the data processing device as if the data input and output port are connected directly,

wherein the data input and output port and input and output data converting elements are provided in the image display device,

wherein the input and output processing virtual elements are provided in the data processing device,

wherein all data, including input data and output data, communicated between the image display device and data processing device are mutually transmitted and received through the input and output data converting elements and input and output processing virtual elements,

wherein the image display device further comprises a power saving control device, and the power saving control device sets the image display device in a first power saving mode when the image display device is not operated for a specific time, and

wherein the power saving control device sets the image display device in a second power saving mode for saving more power than in the first power saving mode when the image display device is in the first power saving mode, and the data input and output port are not used for a specific time.

21. (New) The wireless display system of claim 20,

wherein the image display device further comprises display elements for displaying the image and operating elements to be operated by the user, and

the power saving control device sets the display elements and operating elements in the first power saving mode.

22. (New) The wireless display system of claim 20,

wherein the wireless communication elements measure the communication rate of all data including the image data transmitted from the data processing device and displayed in the image display device, and

the communication rate of the wireless communication is controlled by decimating the updating of the image data at specific intervals when the communication rate exceeds a certain rate of the effective communication rate of the wireless communication.

23. (New) The wireless display system of claim 20,

wherein the data input and output port are a serial communication interface.

24. (New) The wireless display system of claim 20,

wherein the data input and output port are at least one of barcode reader, tester, digital camera, card reader, scanner, and GPS.

25. (New) The wireless display system of claim 20,

wherein the data from the data input and output port is used for connection verification in wireless connection between the data processing device and image display device, or for user authentication in the data processing device.

26. (New) A wireless display system including an image display device and a data processing device connected through wireless communication elements, the wireless display system comprising:

data input and output port for input and output of data to and from the image display device,

input and output data converting elements for converting data format and protocol in the wireless communication elements, and

input and output processing virtual elements for making virtual data input and output process in the data processing device as if the data input and output port are connected directly,

wherein the data input and output port and input and output data converting elements are provided in the image display device,

wherein the input and output processing virtual elements are provided in the data processing device,

wherein all data, including input data and output data, communicated between the image display device and data processing device are mutually transmitted and received through the input and output data converting elements and input and output processing virtual elements,

wherein said wireless communication elements measure the communication rate of all data including the image data transmitted from the data processing device and displayed in the image display device, and

wherein the communication rate of the wireless communication is controlled by decimating the updating of the image data at specific intervals when the communication rate exceeds a certain rate of the effective communication rate of the wireless communication.

27. (New) The wireless display system of claim 26,

wherein the image display device further comprises a power saving control device, and the power saving control device sets the image display device in a first power saving mode when the image display device is not operated for a specific time.

28. (New) The wireless display system of claim 27,

wherein the power saving control device sets the image display device in a second power saving mode for saving more power than in the first power saving mode when the image display device is in the first power saving mode, and the data input and output port are not used for a specific time.

29. (New) The wireless display system of claim 27,
wherein the image display device further comprises display elements for displaying the image and operating elements to be operated by the user, and
the power saving control device sets the display elements and operating elements in the first power saving mode.

30. (New) The wireless display system of claim 26,
wherein the data input and output port are a serial communication interface.

31. (New) The wireless display system of claim 26,
wherein the data input and output port are at least one of barcode reader, tester, digital camera, card reader, scanner, and GPS.

32. (New) The wireless display system of claim 26,
wherein the data from the data input and output port is used for connection verification in wireless connection between the data processing device and image display device, or for user authentication in the data processing device.